



# KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTIONAL BASED PROGRAMME (IBP) AUGUST 2010 SESSION

EXAMINATION FOR THE DEGREE OF MASTER OF EDUCATION

**PSY/MED/512: RESEARCH METHODS**

DATE: Tuesday 28<sup>th</sup> December 2010

TIME: 9.00a.m -12.00p.m

-----

## INSTRUCTIONS:

ANSWER QUESTION ONE AND ANY OTHER TWO (2) QUESTIONS

### QUESTION ONE (30 MARKS)

- (a) Differentiate between the following concepts as used in research using relevant examples or illustrations:
- (i) Population and sample (2 marks)
  - (ii) Descriptive statistics and descriptive research (4 marks)
  - (iii) Participant observation and non-participant observation (3 marks)
  - (iv) Inductive and deductive reasoning (3 marks)
  - (v) External and internal validity (3 marks)
  - (vi) Probability sampling and non-probability sampling (3 marks)
  - (v) Random assignment and random sampling (2 marks)
- (b) Describe any three (3) ethical issues that need to be addressed in social researches. (6 marks)
- (c) Describe any two (2) methods, other than scientific method, of knowing and acquiring knowledge. In your discussion show one **merit** and **one demerit** of each. (4 marks)

### **QUESTION TWO (20 MARKS)**

- (a) Briefly discuss what is scientific research approach and its nature. **(6 marks)**
- (b) Identify and explain any three (3) important characteristics of the scientific methods. **(3 marks)**
- (c) Describe four (4) characteristics of a good hypothesis. **(4 marks)**
- (d) Differentiate between the null and alternative hypotheses using illustrations. **(3 marks)**
- (e) What role does each type of hypothesis stated in (c) play in a scientific research? **(2 marks)**
- (f) Differentiate between types I and II errors in hypotheses testing. **(2 marks)**

### **QUESTION THREE (20 MARKS)**

- (a) Explain what is meant by a research design. **(3 marks)**
- (b) Describe the considerations a researcher should take in deciding on a research design for her/his study. **(6 marks)**
- (c) Identify any **qualitative or quantitative** research problem (hypothetical or real). **(2 marks)**
- (d) Suggest an appropriate research design for the problem justifying selection. **(3 marks)**
- (e) Describe the sampling procedures/techniques you would use. **(3 marks)**
- (f) Suggest methods of data collection that you would use in the suggested research. **(3 marks)**

### **QUESTION FOUR (20 MARKS)**

- (a) Cross sectional surveys and longitudinal surveys. **(4 marks)**
- (b) Stratified sampling and quota sampling. **(4 marks)**
- (c) Correlational and experimental designs. **(4 marks)**
- (d) Interviews and focused group discussions. **(4 marks)**
- (e) True experiments and quasi experiments. **(4 marks)**

=====